

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6829 (1991): Dental Instruments - Orthodontic Pliers, Angle Wire Bending - Shape, Dimensions and Tests [MHD 8: Dentistry]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



भारतीय मानक

दँत उपकरण — एंगल पर तार मोड़ने के लिए
आर्थोडान्टिक्स प्लास — आकृति, आयाम एवं परीक्षण

(पहला पुनरीक्षण)

Indian Standard

DENTAL INSTRUMENTS — ORTHODONTIC
PLIERS, ANGLE WIRE BENDING — SHAPE,
DIMENSIONS AND TESTS

(*First Revision*)

UDC 615·472 : 621·881·4 : 616·314-72

© BIS 1991

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Dentistry Sectional Committee, had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first issued in 1972 and covered specification for angle wire bending dental pliers. It has been revised so as to retain the requirements in respect of shape, dimensions and specific tests only, as the common specification aspects for all types of Dental pliers are now covered in IS 12507 : 1988 'General requirements for dental pliers', which would serve the purpose of a horizontal standard for dental pliers. This standard is therefore, to be used in conjunction with IS 12507 : 1988.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

DENTAL INSTRUMENTS — ORTHODONTIC PLIERS, ANGLE WIRE BENDING — SHAPE, DIMENSIONS AND TESTS

(*First Revision*)

1 SCOPE

This standard specifies the shape, dimensions and specific tests for angle wire bending orthodontic pliers.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

| <i>IS No.</i> | <i>Title</i> |
|---------------------------|--|
| 1501 (Part 1) : 1984 | Method for vickers hardness test for metallic materials : Part 1 HV 5 to HV 100 (<i>second revision</i>) |
| 3642 (Part 1) : 1990 | Surgical instruments—specification : Part 1 Non-cutting, articulated type instruments (<i>second revision</i>) |

3 SHAPE AND DIMENSIONS

3.1 The shape and dimensions of the angle wire bending orthodontic pliers shall be as shown in Fig. 1.

3.2 Joints

The joint of the pliers shall be double set down screw joint in accordance with **13.2.1** of IS 3642 (Part 1) : 1990.

4 TESTS

4.1 Performance Test

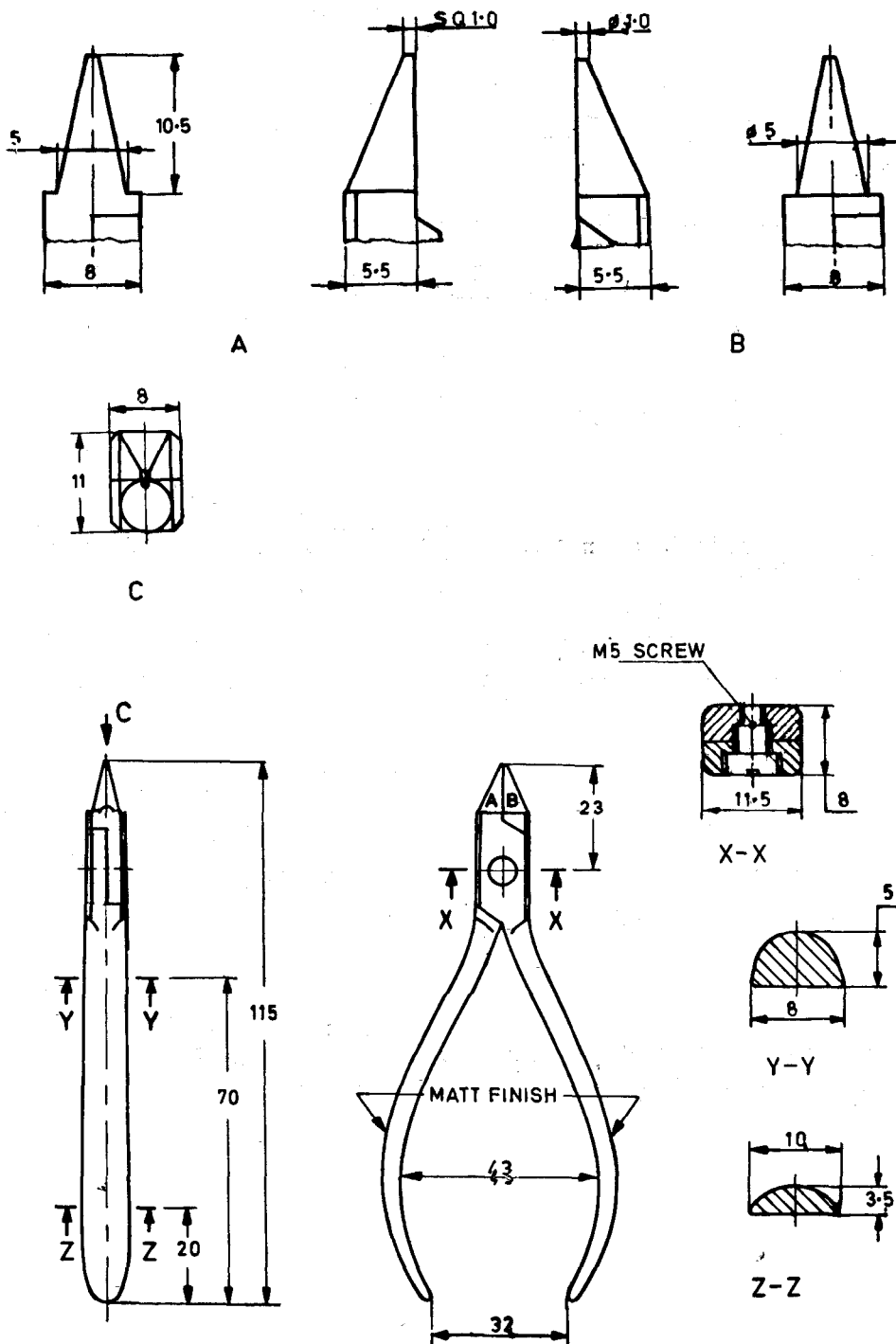
The pliers shall be used to make a complete loop of orthodontic stainless steel wire (hard drawn) of 0.63 mm dia. This shall be done six times. On completion of the test, the pliers shall show no sign of damage.

4.2 Rigidity Test

The pliers shall be made to grip a piece of 1 mm thick hardened steel bit. The bit chosen shall be such that it will not be damaged by the test. A compressive force of 20 kgf shall be applied to the pliers and allowed to act for 2 minutes in such a manner that the force acts on each handle (a total of 40 kgf on the pliers) at a distance of 40 mm from their free ends. This shall be done six times. On completion of the test, the pliers shall show no sign of damage.

4.3 Hardness Test

When tested in accordance with IS 1501 (Part 1) : 1984, the Vickers hardness of the finished pliers (excluding screw) shall be 400 to 440 HV.



All dimensions in millimetres.

FIG. 1 ANGLE WIRE BENDING ORTHODONTIC PLIERS

Standard Mark

The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 1986* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director Publications), BIS.

Revision of Indian Standards

Indian Standards are reviewed periodically and revised, when necessary and amendments, if any, are issued from time to time. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition. Comments on this Indian Standard may be sent to BIS giving the following reference:

Doc : No. MHD 8 (2183)

Amendments Issued Since Publication

| Amend No. | Date of Issue | Text Affected |
|-----------|---------------|---------------|
| | | |
| | | |
| | | |
| | | |

BUREAU OF INDIAN STANDARDS

Headquarters :

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices :

| | Telephone |
|---|--------------------------|
| Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002 | { 311 01 31 331 13 75 |
| Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola CALCUTTA 700054 | 37 86 62 |
| Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036 | 53 38 43 |
| Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113 | 235 02 16 |
| Western : Manakalaya, E9 MIDC, Marol, Andheri (East) BOMBAY 400093 | 6 32 92 95 |

Branches : AHMADABAD, BANGALORE, BHOPAL, BHUBANESHWAR, COIMBATORE,
FARIDABAD, GHAZIABAD, GUWAHATI, HYDERABAD, JAIPUR, KANPUR,
PATNA, THIRUVANANTHAPURAM.